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Driven by Innovation - Partners in Performance

Cypher Environmental products are all 100% environmentally-friendly, non-corrosive and non-toxic.



WHY CHOOSE CYpher ENVIRONMENTAL

Cypher Environmental engineers premium dust control, soil stabilization and water remediation solutions to serve a growing global economy that needs to adapt to ever increasing environmental standards. As an industry pioneer, Cypher sets itself apart because they possess a drive to constantly innovate their products and deliver greater performance. The performance not only of the products themselves, but ultimately the performance of the companies that choose these eco friendly solutions. With Cypher on your side, you will enhance project safety, achieve operational efficiencies, and improve your bottom line.

Driven By Innovation – Partners in Performance

Cypher products are organic, biodegradable, non-toxic and 100% environmentally friendly. The highly concentrated formulations we design allow for economical shipping to further enhance your cost effective results.

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ENVIRONMENTAL

Cypher Environmental provides the mining industry with high quality dust control, soil stabilization and water treatment products that meet the industry's growing requirement for sustainability.



Dust Stop



Dust Stop's primary use is to provide dust control on roads and unpaved surfaces while also proving to be more environmentally friendly than competing solutions. Unlike many alternatives, Dust Stop does not contain any chlorides or toxic by-products. Therefore, it is not corrosive to vehicles, toxic to roadside vegetation, or harmful to use around nearby bodies of water or environmentally sensitive areas.

Dust Stop Liquid Concentrate is designed with ease of application in mind and for long lasting results. Perfectly suited for the mining industry, or any other highly travelled roads, Dust Stop Liquid Concentrate can penetrate the hardest packed soils and withstand the weight of heavy haul trucks. Due to its liquid form, Dust Stop Liquid Concentrate is extremely easy to mix and apply. The highly concentrated formulation of the product allows it to be mixed with several parts water prior to its application and is suitable for any soil type, binding all the soil materials together to form a dust free barrier.

When applied, the dilution rate used can vary anywhere from as low as 2% for stockpiles or tailings piles, to only 12% for even high traffic haul roads. This means when Dust Stop is applied it can be mixed with as high as 98% water. This allows for Dust Stop to be shipped to remote locations all over the world and remain a cost effective and environmentally friendly solution.

Dust Stop Liquid Concentrate provides for a long term solution, not only because it can withstand even heavy haul truck weights, but the product is non-soluble after it dries on the road, therefore it will never run-off in the rain or get sticky when wet. Perfectly suited for mine related applications, Dust Stop is frequently used on mine haul roads, but also a highly effective solution for tailings piles of any kind.

Dust Stop not only comes in a liquid form, but also a powder form that is used for certain unique applications where a powder product is preferred. Dust Stop is applicable not only for haul roads but also access roads, logging roads and secondary roads, consisting of a wide variety of soil types.



EarthZyme



EarthZyme is a long-term soil stabilizer that is designed to strengthen and bind the surface of unpaved roads. It is used to strengthen the treated soil by increasing the density after compaction. As a result of the increased density, treated soil exhibits excellent improvements in CBR values and reduced swelling potential, and therefore, a more durable road surface during wet weather.

EarthZyme has become a highly attractive solution for mine haul roads as it has the ability to stabilize roads with heavy haul truck traffic. It also offers excellent cost-savings for the stabilization of secondary roads and municipal roads with much less traffic loads.

EarthZyme is not a glue - it acts on the clay component already in the soil. Comprising of a combination of enzymes, electrolytes and surfactants, it works by releasing water from the soil, enabling it to be compacted to a denser form, and it then manipulates the clay to bind it together permanently, increasing its strength and density. By using the insitu clay-based material, significant cost savings are achieved by cutting back on expensive more traditional stabilization materials, such as aggregate or cement. The effect on the clay is long term. It does not wash away in the rain and provides lasting stabilization for several years. In fact, highly travelled EarthZyme roads maintain the high densities that are achieved after compaction through the action of the traffic, which help yield the long-term stabilization results. Therefore EarthZyme provides a perfect solution for high traffic haul roads.



EarthZyme bio-degrades in 28 days and is easy to mix and apply with standard construction equipment.

UltraZyme



UltraZyme is a specialized blend of naturally-occurring, non-GMO bacteria, enzymes and micronutrients specifically formulated to remediate a wide range of organic contaminants and provide simultaneous odour control in a variety of water, wastewater and soil remediation projects.

Available in three formulations, UltraZyme can meet the demands of a variety of remediation needs including domestic and industrial wastewater treatment, algae reduction and hydrocarbon remediation. UltraZyme is manufactured in a concentrated powder form, which significantly lowers shipping costs as compared to liquid formulations.

The blend of microorganisms and enzymes in the UltraZyme line of products have been specifically selected for their superior ability to degrade and digest complex organic compounds. It converts these compounds into non-toxic end products. UltraZyme products provide better results and improved efficiencies in treatment facilities without the need to increase plant capacity in order to improve retention time.

As biological degradation takes place, the use of all forms of UltraZyme result in simultaneous odour control as a result of the direct reduction of organic pollutants present. Therefore, the technology does not just mask the odour like its competitors – it attacks it at the source to permanently eliminate the problem.

Microorganisms present in UltraZyme are fully non-pathogenic. Our product is 100% environmentally friendly, non-toxic, and organic. It is safe to use in any environment and around people, animals and aquatic life. The benefits of UltraZyme include enhanced BOD / COD removal, improved settling characteristics, reduced suspended solids, bottom solids and sludge, reduced FOG (fats, oils and grease), and overall improved water quality and cleaner effluent.

UltraZyme is available in three forms to meet the demands of a variety of water treatment needs.





Ensuring Quality Results

Cypher is careful to ensure its products are used safely. All distributors are given a full program of training in the products, and the company then takes a proactive role in ensuring the products are suitable for the intended application. *"We do a significant amount of due diligence with our customers. It is critical that we ensure they know how to use our products, especially that they understand how they need to be applied in order to achieve their desired result and maximize cost effectiveness,"* said Cypher President Todd Burns.

Cypher will consult with the distributor and customer to offer experienced advice on the viability of the product for an application, and the quantities and concentrations that will give the optimum results. The application of EarthZyme, for example, is based on the results of soil sampling, while the use of both Dust Stop and UltraZyme are based on a questionnaire.

The Future

Research and development has been the cornerstone of Cypher's development and will continue to form the foundation of its growth. Environmental concerns continue to play an important part in our corporate strategy and position us to expand our product range. With several new products in the development pipeline, Cypher continually looks to improve on existing products while seeking new opportunities to diversify.